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## <u>ABSTRACT</u>

A method for creating a three-dimensional solid freeform fabrication object with non-reactive powder includes spreading a non-reactive powder on a substrate, selectively dispensing a reactive resin onto the non-reactive powder forming a mixture of reactive resin and non-reactive powder, wherein the selective dispensing the reactive resin defines the three-dimensional object, and curing the reactive resin thereby encapsulating the non-reactive powder.